

Inventors: Civelli and Lin
Serial No.: 09/932,161
Filed: August 17, 2001
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CLAIM AMENDMENTS

Please cancel claims 16-33.

Please amend claim 11 as shown below.

Please add new claims 34 and 35 as shown below.

The current status of all claims pending in the present application is shown below. Currently amended claims are presented with markings to indicate the changes made relative to the immediate prior version by underlining of added text and strikethrough of deleted text.

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CURRENT STATUS OF ALL CLAIMS

1. (Original) A method of screening for a compound for promoting wakefulness in a mammal, comprising:

- (a) providing a compound that is a PrRP receptor agonist; and
- (b) determining the ability of said compound to promote wakefulness.

2. (Original) The method of claim 1, wherein step (a) comprises contacting a PrRP receptor with one or more candidate compounds under conditions wherein PrRP promotes a predetermined signal, identifying a compound that promotes said predetermined signal, and providing said compound.

3. (Original) The method of claim 2, wherein said predetermined signal is selected from the group consisting of calcium ion mobilization and arachadonic acid metabolite release.

4. (Original) The method of claim 2, wherein said PrRP receptor is GPR10.

5. (Original) The method of claim 2, wherein said PrRP receptor is contacted with greater than about 100 candidate compounds.

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6. (Original) The method of claim 2, wherein said PrRP receptor is contacted with greater than about 10^5 candidate compounds.

7. (Original) The method of claim 1, wherein step (a) comprises contacting a PrRP receptor with one or more candidate compounds under conditions wherein PrRP binds to said PrRP receptor, identifying a compound that binds to said PrRP receptor, and providing said compound.

8. (Original) The method of claim 7, wherein said PrRP receptor is GPR10.

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9. (Original) The method of claim 7, wherein said PrRP receptor is contacted with greater than about 100 candidate compounds.

10. (Original) The method of claim 7, wherein said PrRP receptor is contacted with greater than about 10^5 candidate compounds.

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11. (Currently amended) ~~The method of claim 1, wherein step (a) comprises~~ A method of screening for a compound for promoting wakefulness in a mammal, comprising:

(a) contacting a PrRP receptor with one or more candidate compounds under conditions wherein PrRP promotes interaction of PrRP receptor with an AMPA receptor associated protein[[,]];

(b) identifying a compound that promotes said interaction[[, and]];

(c) providing said compound, and

(d) determining the ability of said compound to promote wakefulness.

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12. (Original) The method of claim 11, wherein said AMPA receptor associated protein is selected from the group consisting of GRIP, GRIP2 and PICK1.

13. (Original) The method of claim 1, wherein the ability of said compound to promote wakefulness is determined by a method selected from the group consisting of EEG measurement, EMG measurement and wake time measurement.

14. (Original) The method of claim 1, wherein the ability of said compound to promote wakefulness is determined by administering said compound to a mammal selected from the group consisting of a human, a non-human primate, a rat and a mouse.

15. (Original) A method of promoting wakefulness in a mammal, comprising administering to a mammal an effective amount of a PrRP receptor agonist.

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34. (Currently added) A method of promoting wakefulness in a mammal, comprising administering to a mammal an effective amount of a Prolactin-Releasing Peptide (PrRP) or PrRP functional analog.

35. (Currently added) The method of claim 34, wherein an effective amount of a PrRP is administered.
